



22W755

## High-Volume, Straight Centrifugal Pumps

- Max. liquid temp.: 200°F
- ODP motor enclosure
- 1.25 motor service factor, except 22W755 is 1.3

2-stage, low-lead brass, closed impellers provide high pressure for water boosting applications. Cast-iron housing. Stainless steel, Buna N, and carbon/silicon carbide mechanical seals. Wetted materials are brass, Buna N, carbon, cast iron, silicon carbide, and stainless steel. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 160.

| HP       | Phase | Voltage            | Amps      | Inlet Size   | Outlet Size  | Frame    | GPM @ 25 psi | GPM @ 50 psi | Item No. |
|----------|-------|--------------------|-----------|--------------|--------------|----------|--------------|--------------|----------|
| 1 1/2 hp | 3     | 208 to 240/480V AC | 5.7/2.85  | 1 1/2 in NPT | 1 1/4 in NPT | NEMA 56J | 46           | 41           | 22W755   |
|          | 1     | 120/240V AC        | 25.0/12.5 | 1 1/2 in NPT | 1 1/4 in NPT | NEMA 56J | 55           | 48           | 22W757   |
| 2 hp     | 3     | 208 to 240/480V AC | 7.4/3.7   | 1 1/2 in NPT | 1 1/4 in NPT | NEMA 56J | 53           | 35           | 22W759   |



48GP22

## Constant Pressure/Variable Speed Booster Pumps



Pumps include everything needed to maintain constant pressure in domestic water applications. Great in multibath homes, small apartments, condos, penthouses, residential irrigation systems, and restaurants. For indoor use.

3500-rpm motor in TEFC enclosure is rated for continuous duty; 50/60 Hz. Max. liquid temp.: 250°F. Stainless steel housing; seals are carbon/ceramic/rubber.

Pumps include tank and controller. Check valves, unions, ball valves, and breakers not included.

Note: Pumps need to operate at minimum gpm flow to maintain operation.

| Stages | HP | Voltage | Phase | Amps  | Inlet    | Outlet | Tank (gal.) | Max. PSI Boost @ 0-10 GPM | Max. PSI Boost @ 10-20 GPM | Max. PSI Boost @ 20-30 GPM | Max. Pressure | Mfr. Model   | Item No. |
|--------|----|---------|-------|-------|----------|--------|-------------|---------------------------|----------------------------|----------------------------|---------------|--------------|----------|
| 3      | 1  | 115     | 1     | 3 A   | 1 1/4 in | 1 in   | 4.5         | 45                        | 40                         | 35                         | 100 psi       | 1151AB25HM03 | 48GP52   |
|        | 1  | 230     | 1     | 3 A   | 1 1/4 in | 1 in   | 4.5         | 45                        | 40                         | 35                         | 100 psi       | 1AB25HM03    | 48GP25   |
| 4      | 1  | 230     | 1     | 3 A   | 1 in     | 1 in   | 2           | 35                        | Not Rated                  | Not Rated                  | 100 psi       | 1AB21HM04    | 48GP22   |
|        | 1  | 115     | 1     | 3 A   | 1 in     | 1 in   | 2           | 55                        | Not Rated                  | Not Rated                  | 100 psi       | 1151AB21HM06 | 48GP51   |
| 6      | 1  | 230     | 1     | 3 A   | 1 in     | 1 in   | 2           | 55                        | Not Rated                  | Not Rated                  | 100 psi       | 1AB21HM06    | 48GP23   |
|        | 2  | 230     | 1     | 4.2 A | 1 in     | 1 in   | 2           | 80                        | 60                         | Not Rated                  | 100 psi       | 2AB23HM06    | 48GP24   |
|        | 2  | 230     | 1     | 4.2 A | 1 1/4 in | 1 in   | 4.5         | 90                        | 80                         | 70                         | 100 psi       | 2AB25HM06    | 48GP28   |
|        | 2  | 230     | 1     | 4.2 A | 1 1/4 in | 1 in   | 4.5         | 90                        | 80                         | 70                         | 100 psi       | 2AB25HM06    | 48GP28   |

## Turbine Pumps



- Liquid temp. range: -20° to 230°F
- 3450 rpm motors
- Bronze impellers
- Max. specific gravity: 1.0
- Mount on NEMA 56J frames, except 56C on 300 psi max. pressure models
- 300 psi max. pressure models handle vapors up to 20% by volume, to minimize vapor lock

Feature Type 21 mechanical seals and an easily accessible drain plug. Ball bearings on shaft for longer life. Suitable for industrial and commercial applications, boiler feed, condensation return, pressure service, water treatment, reverse osmosis filtration, spray equipment, and liquid transfer. 3-phase pumps do not have overload protection, which must be provided by a starter

unit sold separately, see page 160.

Notes: A suitable relief valve, such as 2X318 (on page 2895), should be installed to assure maximum psi is not exceeded; otherwise, electric motor/pump may be damaged.

Use only with nonflammable liquids compatible with pump materials in nonexplosive/nonflammable atmospheres.

**Bronze Housing**—Wetted materials are bronze, carbon, ceramic, Buna N, and stainless steel.

**Cast-Iron Housing**—Impellers have balancing holes to help eliminate side wear and reduce the need for external adjustments. Include cast-iron motor bracket with replacement bronze sleeve. Wetted materials are cast iron, bronze, carbon, ceramic, and Buna N.

Note: Not for use with viscous or abrasive liquids.



53EA96



53EC03

| HP   | Motor Encl. | Inlet         | Outlet     | Max. Pressure | Voltage     | GPM @ 10 psi | 1-PHASE GPM @ 50 psi | GPM @ 100 psi | Item No. | Voltage     | GPM @ 10 psi | 3-PHASE GPM @ 50 psi | GPM @ 100 psi | Item No. |
|--|-------------|---------------|------------|---------------|-------------|--------------|----------------------|---------------|----------|-------------|--------------|----------------------|---------------|----------|
| <b>Bronze Housing</b>                        |             |               |            |               |             |              |                      |               |          |             |              |                      |               |          |
| 1/2 hp                                       | ODP         | 3/4 in NPT    | 3/4 in NPT | 120 psi       | 115/230     | 2.5          | 1.5                  | 0.7           | 53EA94   | —           | —            | —                    | —             | —        |
| 1/2 hp                                       | ODP         | 3/4 in        | 3/4 in     | 120 psi       | —           | —            | —                    | —             | —        | 208-230/460 | 6            | 3.7                  | 1.1           | 4JP6     |
| 1/2 hp                                       | ODP         | 3/4 in NPT    | 3/4 in NPT | 120 psi       | 115/230     | 6.0          | 3.7                  | 1.1           | 53EA95   | —           | —            | —                    | —             | —        |
| 3/4 hp                                       | ODP         | 1 1/4 in FNPT | 1 in FNPT  | 120 psi       | 115/230     | 7.6          | 6.4                  | 4.8           | 53EA96   | 208-230/460 | 7.6          | 6.4                  | 4.8           | 53EA97   |
| 1 hp   | ODP         | 1 1/4 in FNPT | 1 in       | 120 psi       | 115/230     | 11.2         | 8.6                  | 3             | 4JP2     | —           | —            | —                    | —             | —        |
| 1 1/2 hp                                     | TEFC        | 1 1/4 in FNPT | 1 in FNPT  | 140 psi       | 115/208/230 | 9.7          | 7.8                  | 5.6           | 53EA98   | 230/460     | 9.7          | 7.8                  | 5.6           | 53EA99   |
| 2 hp   | TEFC        | 1 1/4 in FNPT | 1 in FNPT  | 100 psi       | 115/208/230 | 22.5         | 18.3                 | —             | 53EC01   | 230/460     | 22.5         | 18.3                 | —             | 53EC02   |
| <b>Cast-Iron Housing</b>                     |             |               |            |               |             |              |                      |               |          |             |              |                      |               |          |
| 1/2 hp                                       | ODP         | 3/4 in NPT    | 3/4 in NPT | 140 psi       | 115/230     | 3.8          | 2.6                  | 1.3           | 53EC03   | —           | —            | —                    | —             | —        |
| 3/4 hp                                       | ODP         | 1 1/4 in FNPT | 1 in FNPT  | 120 psi       | 115/230     | 7.6          | 6.4                  | 4.8           | 53EC04   | —           | —            | —                    | —             | —        |
| 1 hp   | ODP         | 1 1/4 in FNPT | 1 in FNPT  | 120 psi       | 115/230     | 11.2         | 8.6                  | 3.0           | 53EC05   | —           | —            | —                    | —             | —        |
| 3 hp   | TEFC        | 1 1/4 in FNPT | 1 in FNPT  | 120 psi       | —           | —            | —                    | —             | —        | 230/460     | 18.4         | 16.0                 | 12.6          | 53EC06   |
| <b>Cast Iron with Nickel Plating Housing</b> |             |               |            |               |             |              |                      |               |          |             |              |                      |               |          |
| 1/2 hp                                       | ODP         | 3/4 in        | 3/4 in     | 140 psi       | 115/230     | 2.5          | 1.5                  | 0.7           | 4JPF1    | —           | —            | —                    | —             | —        |
| 1/2 hp                                       | ODP         | 1 1/4 in      | 1 in       | 120 psi       | —           | —            | —                    | —             | —        | 208-230/460 | 3.8          | 2.6                  | 1.3           | 4JPF4    |
| 3/4 hp                                       | ODP         | 1 1/4 in      | 1 in       | 120 psi       | —           | —            | —                    | —             | —        | 208-230/460 | 7.6          | 6.4                  | 4.8           | 4JPF6    |
| 1 hp   | ODP         | 1 1/4 in      | 1 in       | 120 psi       | —           | —            | —                    | —             | —        | 208-230/460 | 11.2         | 9.7                  | 7.6           | 4JPF7    |
| 1 1/2 hp                                     | TEFC        | 1 1/4 in      | 1 in       | 140 psi       | 115/208-230 | 9.7          | 7.8                  | 5.6           | 4JPF8    | 208-230/460 | 9.7          | 7.8                  | 5.6           | 4JPF9    |
| 2 hp   | TEFC        | 1 1/4 in      | 1 in       | 100 psi       | 115/208-230 | 22.5         | 18.3                 | —             | 4JPG1    | 208-230/460 | 22.5         | 18.3                 | —             | 4JPG2    |

| Item                                  | For Use With No.         | Includes                 | Item No. | Item           | For Use With No.         | Includes                 | Item No. |
|---------------------------------------|--------------------------|--------------------------|----------|----------------|--------------------------|--------------------------|----------|
| Replacement Shaft Seal Kits and Seals |                          |                          |          | Shaft Seal Kit | 4JP52-4JP58              | Pump O-Rings, Seal, Seat | 2WV89    |
| O Ring Kit, T31 Mech Seal             | 4UP50, 4UP51             | Pump O-Rings, Seal, Seat | 26KJ17   | Shaft Seal     | 4UP50, 4UP51             | Seal and Seat            | 2WV87    |
| O Ring Kit, T51 Mech Seal             | 4P913-4P916, 4UP59-4UP66 | Pump O-Rings, Seal, Seat | 26KJ18   | Shaft Seal     | 4P913-4P916, 4UP52-4UP66 | Seal and Seat            | 2WV86    |

\* 150/230V only. ‡ Cast-iron housing with nickel plating.